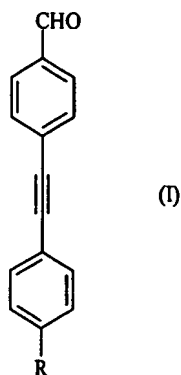


Claims

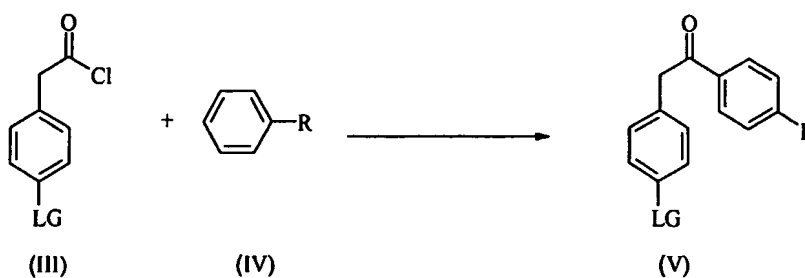
1. Process for the preparation of compounds of formula (I):



with R being C₁-C₁₂ -alkyl, C₁-C₁₂-alkyl aryl, C₁-C₁₂-alkyl heteroaryl, C₂-C₁₂-alkenyl, C₂-C₁₂-alkenyl aryl, C₂-C₁₂-alkenyl heteroaryl, C₂-C₁₂-alkynyl, C₂-C₁₂-alkynyl aryl, C₂-C₁₂-alkynyl heteroaryl, C₁-C₁₂ -alkyl-C₃-C₈-cycloalkyl, C₃-C₈-cycloalkyl, C₁-C₁₂-alkoxy; aryl, heteroaryl, halides;

said process comprising the steps of :

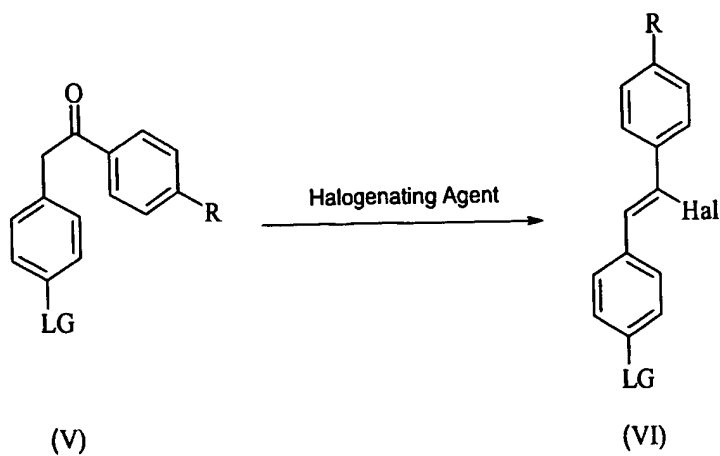
Step 1 : reaction of an acyl chloride of formula (III) with an alkyl benzene of formula (IV) to yield the corresponding compound (V):



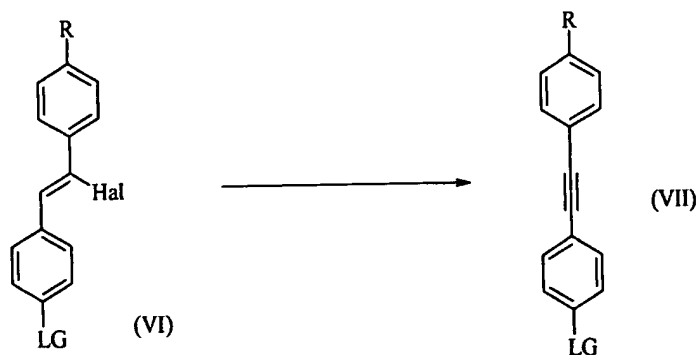
whereby LG is a leaving group;

Step 2 : transformation of a compound of formula (V) into compound of formula (VI), using a suitable halogenating agent :

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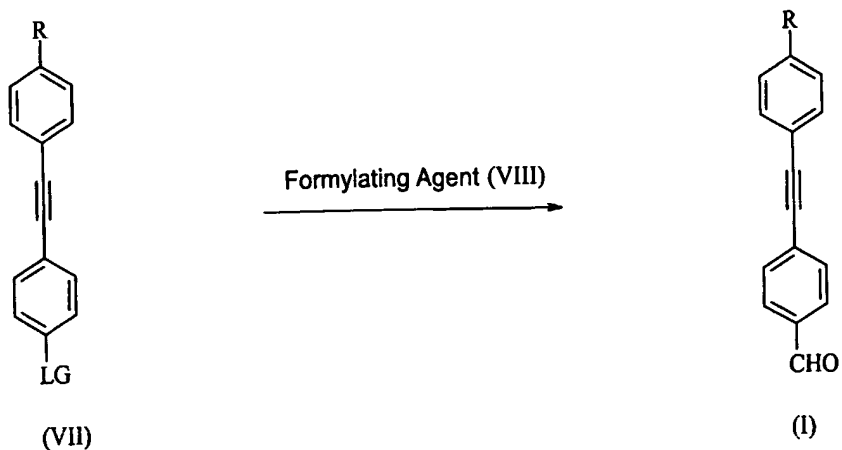


Step 3 : subjecting a compound (VI) to an elimination reaction to provide a compound of formula (VII):



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Step 4 : subjecting compound of formula (VII) or an activated species thereof with a formylating agent (VIII) for giving the compound (I):



2. Process according to claim 1 wherein the reaction of step 1 is conducted in the presence of AlCl_3 .
3. Process according to any of the preceding claims wherein the halogenating agent in step 2 is acetyl chloride.
- 5 4. Process according to any of the preceding claims wherein the reaction of step 3 is performed in presence of a base.
5. Process according any of the preceding claims wherein the formylating agent in step 4 is selected from the group consisting of DMF, 1-formyl-piperidine, 1-formyl piperazine, N-methyl-N-(2-pyridyl) formamide, N-methyl formanilide,
10 Weinreb formamide.
6. Process according any of the preceding claims wherein the reaction of step 4 is conducted in presence of magnesium or butyl lithium.
7. Process according to any of the preceding claims, wherein R is $\text{C}_1\text{-C}_6$ alkyl.
8. Process according to any of the preceding claims wherein the compound is
15 selected from the group consisting of :
 - 4-(4-methoxy-phenylethynyl)-benzaldehyde
 - 4-(4-hexyl-phenylethynyl)-benzaldehyde
 - 4-(4-ethyl-phenylethynyl)-benzaldehyde
 - 4-(4-chloro-phenylethynyl)-benzaldehyde
 - 20 4-(4-butyl-phenylethynyl)-benzaldehyde
 - 4-p-tolylethynyl-benzaldehyde
 - 4-(4-propyl-phenylethynyl)-benzaldehyde
 - 4-(4-cyclohexyl-phenylethynyl)-benzaldehyde
 - 4-(4-propoxy-phenylethynyl)-benzaldehyde
 - 25 4-(4-phenoxy-phenylethynyl)-benzaldehyde
 - 4-biphenyl-4-ylethynyl-benzaldehyde